

## ABSTRACT OF THE DISCLOSURE

1        A pump chamber defines a capacity increased in a first certain angle range and  
2        decreased in a second certain angle range. An intake port is open in an increase range  
3        where the pump chamber moves from a minimum capacity position to a maximum  
4        capacity position. A discharge port is open in a decrease range where the pump chamber  
5        moves from the maximum capacity position to the minimum capacity position, the  
6        discharge port being biased to the minimum capacity position. A seal land portion seals a  
7        communication between the intake port and the discharge port via the pump chamber. A  
8        reduced portion is defined between a communication portion and the pump chamber. A  
9        bypass path connects the communication portion with the discharge port. A relief valve  
10       intervened in the bypass path opens the bypass path with a pressure of the communication  
11       portion increased to or over a set pressure.

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